

South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

August 31, 2010

Mr. Gerardo Rios
Chief – Permits Office
U. S. EPA, Region IX
75 Hawthorne Street, Air 3
San Francisco, CA 94105

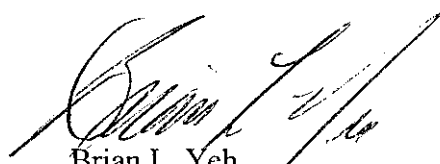
Dear Mr. Rios:

Subject: City of Hope Medical Center (ID 023194) – Title V Permit Revision

City of Hope Medical Center has proposed to revise their Title V permit by replacing the three burners on existing boilers with new Ultra Low NOx burners. This is a medical center/hospital facility (SIC 8069) located at 1500 E. Duarte Road, Duarte, CA 91010. This proposed permit revision is considered as a “minor permit revision” to their Title V permit. Attached for your review are the evaluation and permit for the proposed revision.

If you have any questions or need additional information regarding the proposed permit revision, please call Grace Vu at (909) 396-2628.

Very truly yours,



Brian L. Yeh
Senior Manager
General Commercial/Energy

BLY:GV:Cover Letter_023194

Attachments

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT ENGINEERING & COMPLIANCE APPLICATION PROCESSING AND CALCULATIONS	PAGES 6	PAGE NO. 1
	APPL. NO. 509812	DATE 6/22/10
	PROCESSED BY GV02	CHECKED BY

EVALUATION FOR PERMIT TO CONSTRUCT

COMPANY NAME AND ADDRESS

CITY OF HOPE MEDICAL CENTER
1500 E. DUARTE ROAD
DUARTE, CA 91010

EQUIPMENT LOCATION

AQMD ID 23194
1500 E. DUARTE ROAD, DUARTE, CA 91010

EQUIPMENT DESCRIPTION

APPLICATION NUMBER: 509812

BOILER, NO. 1, CLEAVER BROOKS, FIRETUBE TYPE, MODEL NO. CBLE-700-600-150-ST, WITH ONE LOW NOX BURNER, POWER FLAME, MODEL NO. NVC11CBR-G-40, NATURAL GAS FIRED WITH LIQUEFIED PETROLEUM GAS (LPG) STAND-BY FUEL, RATED AT 25,200,000 BTU PER HOUR.

APPLICATION NUMBER: 509813

BOILER, NO. 2, CLEAVER BROOKS, FIRETUBE TYPE, MODEL NO. CBLE-700-600-150-ST, WITH ONE LOW NOX BURNER, POWER FLAME, MODEL NO. NVC11CBR-G-40, NATURAL GAS FIRED WITH LIQUEFIED PETROLEUM GAS (LPG) STAND-BY FUEL, RATED AT 25,200,000 BTU PER HOUR.

APPLICATION NUMBER: 509814

BOILER, NO. 3, CLEAVER BROOKS, FIRETUBE TYPE, MODEL NO. CBLE-700-600-150-ST, WITH ONE LOW NOX BURNER, POWER FLAME, MODEL NO. NVC11CBR-G-40, NATURAL GAS FIRED WITH LIQUEFIED PETROLEUM GAS (LPG) STAND-BY DUEL, RATED AT 25,200,000 BTU PER HOUR.

BACKGROUND/SUMMARY

City of Hope is a Medical Center/Hospital providing medical care to the public. City of Hope submitted three class I applications for Permit Modifications to three 25,106,250 BTU/hr boilers. These modifications (Ref. P/O F11044, F11046, and F11047) will replace the existing burners with more efficient Ultra Low NOx burners.

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The new Power Flame Nova Plus Burner utilizes and advanced premix combustion technology that eliminates the need for flue gas recirculation to achieve the guaranteed emission level. (see attached guarantee from Power Flame Inc.)

The boilers are used to provide steam and hot water to City of Hope Medical Center in Duarte. The three Cleaver Brooks boilers will be retrofitted with new 25.2 mmbtu/hr Power Flame Ultra Low NOx burners. BACT requires 9 ppmv for NOx and 50 ppmv for CO. However, since these are "retrofits" and there will be no increase in emissions, BACT is not triggered. Rule 1146 limits NOx to 30 ppmv and CO to 400 ppmv. The burner manufacturer (Power Flame Inc.) guarantees NOx to 9 ppmv and CO to 50 ppmv for firetube boilers.

Rule 1146 requires a limit of 9 ppmv NOx starting January 1, 2012. Per applicant's request, emission calculations and permit conditions will be based on the 9 ppmv NOx and 50 ppmv CO limits.

Liquefied Petroleum Gas (LPG) will be used only when there is a curtailment of natural gas. Rule 1146 specifies an emission limit of 40 ppmv NOx when firing on a non-gaseous fuel. Source tests will be required to verify compliance with 40 ppmv NOx when firing on LPG.

EMISSION CALCULATIONS

Please refer to the attachments.

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RULES EVALUATION

RULE 212-STANDARDS FOR APPROVING PERMITS AND ISSUING PUBLIC NOTICES

The modification will not result in any emission increase; therefore, this rule is not applicable.

RULE 401 - VISIBLE EMISSIONS

Compliance is expected from a well-maintained and properly operated equipment.

RULE 402 - NUISANCE

No nuisance is expected from a well-maintained equipment.

RULE 404 – PARTICULATE MATTER - CONCENTRATION

The purpose of the rule is to prohibit the discharge into the atmosphere of particulate matter in excess of the concentrations shown in Table 404(a). The boiler is expected to comply with the requirements of this rule.

RULE 407 – LIQUID AND GASEOUS AIR CONTAMINANTS

CO emission is expected to be at or below 50 ppm (in accordance with BACT requirements). Limit in this rule is 2000 ppm. Compliance is expected.

RULE 409 – COMBUSTION CONTAMINANTS

Compliance is expected with the use of natural gas as fuel for the boilers.

RULE 431.1 – SULFUR CONTENT OF GASEOUS FUELS

The boiler will use pipeline quality natural gas which will comply with the 16 ppm sulfur limit, calculated as H₂S, specified in this rule. Natural gas will be supplied by the Southern California Gas Company which has a H₂S content of less 0.25 gr/100scf, which is equivalent to a concentration of about 4 ppm. Compliance is expected.

RULE 1146 – EMISSIONS OF OXIDES OF NITROGEN FROM INDUSTRIAL, INSTITUTIONAL, AND COMMERCIAL BOILERS, STEAM GENERATORS, AND PROCESS HEATERS

The boiler will be rated at 25.2 MMBtu/hr and will therefore be subject to the requirements of this rule.

Current emission limits are 30 ppm for NO_x and 400 ppm for CO, when fired using natural gas. When firing on LPG, the NO_x emission limit is 40 ppm (CO remains at 400 ppm). The boilers are required to be source-tested to prove compliance with the rule limits.

The boilers are required to meet the lower emission limit of 9 ppmv or 0.011lb/MM BTU for NO_x by January 1, 2012 and January 1, 2014. Compliance plan for the boilers was submitted on January 6, 2010.

The operator will be required to conduct source tests once every three years and periodic NO_x readings as required by the rule. Compliance is expected.

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NEW SOURCE REVIEW (NSR)

RULE 1303(a) – BACT

There is no increase in emissions associated with the replacement of the existing burner with the new burner of the same heat input rating; therefore, BACT requirements are not applicable.

Pollutant	Pre-Modification (old burner) Emissions (lb/day)*	Post-Modification (new burner) Emissions (lb/day)**
NOx	22	7
SOx	0	0
PM	4	4
CO	23	23
ROG	4	3

*Emissions taken from Permit F11044 (A/N 316435) file

**Emissions taken from Calculation section of this evaluation

RULE 1303(b)(1) – MODELING

There is no increase in emissions associated with the replacement of the existing burner with the new burner of the same heat input rating; therefore, modeling requirements are not applicable.

RULE 1303(b)(2) - OFFSETS

There is no increase in emissions associated with the replacement of the existing burner with the new burner of the same heat input rating; therefore, external offsets are not required.

RULE 1401 – NEW SOURCE REVIEW OF TOXIC AIR CONTAMINANTS

There are no increases in emissions associated with the equipment modification; therefore, the requirements of this rule are not applicable.

RECOMMENDATION(S)

Issue a Permit to Construct with the following permit conditions.

PERMIT CONDITIONS

1 & 2 shall be standard conditions.

- THIS BOILER SHALL BE FIRED WITH NATURAL GAS ONLY, EXCEPT DURING TESTING, MAINTENANCE, NATURAL GAS CURTAILMENT OR AN EMERGENCY EVENT, AT WHICH TIME LIQUIFIED PETROLEUM GAS (LPG) MAY BE USED.
- THIS BOILER SHALL BE OPERATED IN COMPLIANCE WITH THE REQUIREMENTS OF RULE 1146.
- THIS BOILER SHALL NOT EMIT MORE THAN 9 PPM OF OXIDES OF NITROGEN (NOX), CALCULATED AS NO2, AND NOT MORE THAN 50 PPM OF CARBON MONOXIDE (CO), ALL

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MEASURED BY VOLUME ON A DRY BASIS AT 3% OXYGEN AND AVERAGED OVER A PERIOD OF 15 CONSECUTIVE MINUTES, WHEN FIRED USING NATURAL GAS.

THIS BOILER SHALL NOT EMIT MORE THAN 40 PPM OF OXIDES OF NITROGEN (NOX), CALCULATED AS NO₂, AND NOT MORE THAN 400 PPM OF CARBON MONOXIDE (CO), ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% OXYGEN AND AVERAGED OVER A PERIOD OF 15 CONSECUTIVE MINUTES, WHEN FIRED USING LIQUIFIED PETROLEUM GAS (LPG).

6. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TESTS UNDER THE FOLLOWING CONDITIONS:
 - A. SOURCE TESTING SHALL BE CONDUCTED WITHIN 60 DAYS AFTER INITIAL START-UP UNLESS OTHERWISE APPROVED IN WRITING BY THE EXECUTIVE OFFICER.
 - B. THE SOURCE TESTS SHALL BE PERFORMED TO VERIFY COMPLIANCE WITH THE NO_x AND CO EMISSION LIMITS SPECIFIED IN CONDITION NO. 5.
 - C. THE TESTS SHALL BE CONDUCTED WHILE THE BOILER IS FIRING AT MAXIMUM, MINIMUM AND AVERAGE FIRING RATES.
 - D. WRITTEN NOTICE OF THE SOURCE TESTS SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P.O. BOX 4941, DIAMOND BAR, CA 91765) AT LEAST 10 DAYS PRIOR TO TESTING SO THAT AN OBSERVER MAY BE PRESENT.
 - E. TWO COMPLETE COPIES OF THE SOURCE TEST REPORTS SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P.O. BOX 4941, DIAMOND BAR, CA 91765) WITHIN 30 DAYS AFTER THE TEST. THE REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO EMISSIONS RATES IN POUNDS PER HOUR AND CONCENTRATIONS IN PPMV AT THE OUTLET OF THE HEATER, MEASURED ON A DRY BASIS AT 3% OXYGEN. THE FOLLOWING OPERATING DATA SHALL ALSO BE INCLUDED FOR EACH FIRING RATE:
 - I. THE EXHAUST FLOW RATES, IN ACTUAL CUBIC FEET PER MINUTE (ACFM).
 - II. THE FIRING RATES, IN BTU PER HOUR.
 - III. THE EXHAUST TEMPERATURE, IN DEGREES FAHRENHEIT.
 - IV. THE OXYGEN CONTENT OF THE EXHAUST GASES, IN PERCENT.
 - V. THE FUEL FLOW RATE.
 - F. A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR CRITERIA POLLUTANT TO BE MEASURED, AND IN COMPLIANCE WITH DISTRICT RULE 304 (NO CONFLICT OF INTEREST) SHALL CONDUCT THE TEST.
 - G. SAMPLING FACILITIES SHALL COMPLY WITH THE DISTRICT GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES PURSUANT TO RULE 217.
7. THE COMBUSTION BURNER SHALL BE INSPECTED AND MAINTAINED PER MANUFACTURER SPECIFICATIONS. RECORDS SHALL BE MAINTAINED FOR THE INSPECTIONS AND MAINTENANCE OF THE BURNER.

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8. THE OPERATOR OF THIS BOILER SHALL COMPLY WITH SOURCE TESTING REQUIREMENTS IN SUBDIVISION (d)-COMPLIANCE DETERMINATION OF RULE 1146 FOR BOTH NATURAL GAS AND LPG.
9. THE OPERATOR OF THIS BOILER SHALL KEEP A RECORD OF THE LPG FUEL USAGE (WHEN USED AS BACK-UP FUEL) OF THIS EQUIPMENT. RECORDS SHALL INCLUDE THE DATE THE BOILER IS FIRED USING LPG, THE SPECIFIC REASON, AND THE TOTALIZING FUEL METER READING AT THE BEGINNING AND END OF THE OPERATION.
10. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE KEPT FOR A MINIMUM OF FIVE YEARS AND BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

BOILER EMISSIONS FOR FIRING ON NATURAL GAS

A/N 509812

Emission factors for NOx, CO, ROG, Sox and PM10 are from form B-1
Except NOx and CO which is calculated from the ppm of NOx and CO

1. DATA

Max burner rating	25,200,000	BTU/hr
Max hr/dy	24	hr/day
day per week	7	dy/wk
wk/yr	52	wk/yr
Use default NOx E.F.	no	yes/no
Use default CO E.F.	no	
Max NOx rate	9	ppm
Max CO rate	50	ppm
30-day ave	30	days
Ave load-Rule 1401	100.0%	
Max load-Reg 13	100.0%	
Limit fuel Reg 13	no	yes/no
Limit fuel Rule 1146	no	
Various locations	no	
Fuel HHV	1050	btu/ft3
Fuel rate	24000	ft3/hr
MM cf fuel rate	0.024000	mmcf/hr
VOC control (Rule 1401)	0%	eff
Deemed complete date	4/9/2010	
BACT or 1100 rule?	1,146	
Use s/t results for AEIS	no	yes/no

Emissions factor

Item	value	units	Ref
ROG	5.5	lb/mmcf	SCAQMD EFB Form B-1
SOx	0.6	lb/mmcf	SCAQMD EFB Form B-1
PM	7.6	lb/mmcf	SCAQMD EFB Form B-1
NOx-default	100	lb/mmcf	SCAQMD EFB Form B-1
CO-default	84	lb/mmcf	SCAQMD EFB Form B-1
NOx	0.01089	lb/mmmbtu	Conversion ppm to lb/mmmbtu
CO	0.0368	lb/mmmbtu	Conversion ppm to lb/mmmbtu

Rating	25.2	MM btu/hr
MMCF/hr	0.024	MMCF/hr

$$\text{MM btu/hr} = \text{btu rating} / 1000000$$

$$\text{MMCF} = \text{btu/hr} * 1/1050 \text{ btu/ft}^3 * 1\text{MMCF}/1000000 \text{ ft}^3$$

Conversion factor

NOx ==>	lb/MM BTU =	0.00121 x ppmNOx
CO ==>	lb/MM BTU =	0.000736 x ppmCO

$$\text{NOx and CO Emissions} = \text{lb/MM BTU} \times \text{MM btu/hr} \times \text{load}$$

$$\text{ROG, SOX and PM10 Emissions} = \text{lb/mmcf} \times \text{MMCF/hr} \times \text{load}$$

Source Test Results

ppm @ 3% O ₂				
Item	Actual	Rule 1146	Complies	AEIS
			yes/no	lb/hr
NO _x	n/a	9	yes/no	
CO	n/a	400	yes/no	

2. Combustion Emissions

	lb/hr	lb/day	30-dy ave	lb/yr
RHC	0.13	3.17	3	1153
NO _x	0.2744	6.59	7	2397
SO ₂	0.0144	0.35	0	88
CO	0.9274	22.26	23	8101
PM	0.18240	4.38	4	1593

3. Rule 1303 (b)(1)-Screen Table A-1

Emissions rate (lb/hr)			
Item	Allowed	calculated	Compliance
NO _x	0.86	0.27	Yes
CO	47.3	0.93	Yes
PM10	5.2	0.18	Yes

4. Rule 1401 Emissions Calculations

VOC reduction	0% percent				
Fuel usage	0.024	mmcf/hr		nsr	nsr
item	EF(lb/mmcf)	R1-lb/hr	R2lb/hr	R1 E-06	R2 lb/yr
toluene	2.65E-02	0.000636	0.000636	636.00	5.556096
xylene	1.97E-02	0.0004728	0.0004728	472.80	4.1303808
naphthalene	3.00E-04	0.0000072	0.0000072	7.20	0.0628992
PAH	1.00E-04	0.0000024	0.0000024	2.40	0.0209664
acrolein	2.70E-03	0.0000648	0.0000648	64.80	0.5660928
acetaldehyde	3.10E-03	0.0000744	0.0000744	74.40	0.6499584
benzene	5.80E-03	0.0001392	0.0001392	139.20	1.2160512
formaldehyde	1.23E-02	0.0002952	0.0002952	295.20	2.5788672
propylene	5.30E-01	1.27E-02	0.01272	12720.00	111.12192
ethyl benzene	6.90E-03	1.66E-04	0.0001656	165.60	1.4466816
hexane	4.60E-03	1.10E-04	0.0001104	110.40	0.9644544

Reference AB-2588 Emissions factors

FACILITY PERMIT TO OPERATE CITY OF HOPE

Facility Equipment and Requirements (Section D)

This section consists of a table listing all permitted equipment at the facility, facility wide requirements, all individual Permits to Construct and Permits to Operate issued to various equipment at the facility, and Rule 219-exempt equipment subject to source-specific requirements. Each permit and Rule 219-exempt equipment will list operating conditions including periodic monitoring requirements, and applicable emission limits and requirements that the equipment is subject to. Also included is the rule origin and authority of each emission limit and permit condition.

FACILITY PERMIT TO OPERATE CITY OF HOPE

PERMITTED EQUIPMENT LIST

THE FOLLOWING IS A LIST OF ALL PERMITS TO CONSTRUCT AND PERMITS TO OPERATE AT THIS FACILITY:

Application number	Permit to Operate number	Equipment description
175699	D10962	ETHYLENE OXIDE STERILIZATION HOSPITAL
217251	D36401	I C E (50-500 HP) EM ELEC GEN DIESEL
217252	D22390	I C E (50-500 HP) NON-EM PORT N-RENT GASOLINE
269895	D64727	I C E (>500 HP) EM ELEC GEN DIESEL
269896	D64728	I C E (>500 HP) EM ELEC GEN DIESEL
269898	D64729	I C E (>500 HP) EM ELEC GEN DIESEL
274107	D71056	ETHYLENE OXIDE STERILIZATION HOSPITAL
274108	D71057	ETHYLENE OXIDE STERILIZATION CTL (HOSPITAL)
303977	D91222	I C E (50-500 HP) EM ELEC GEN DIESEL
314936	D98623	I C E (>500 HP) EM ELEC GEN DIESEL
314937	D98624	I C E (>500 HP) EM ELEC GEN DIESEL
314938	D98625	I C E (>500 HP) EM ELEC GEN DIESEL
314939	D98626	I C E (>500 HP) EM ELEC GEN DIESEL
316435	F11044	BOILER (>20-50 MMBTU/HR) COMB GAS-LPG
316436	F11046	BOILER (>20-50 MMBTU/HR) COMB GAS-LPG
316437	F11047	BOILER (>20-50 MMBTU/HR) COMB GAS-LPG
355721	F26612	CHARBROILER -- NATURAL GAS
411676	F73865	BOILER (<5 MMBTU/HR) NATURAL GAS
430068	N14408	SERV STAT STORAGE & DISPENSING GASOLINE
452326		I C E (50-500 HP) EM ELEC GEN DIESEL
509812		BOILER (>20-50 MMBTU/HR) COMB GAS-LPG
509813		BOILER (>20-50 MMBTU/HR) COMB GAS-LPG
509814		BOILER (>20-50 MMBTU/HR) COMB GAS-LPG

NOTE: EQUIPMENT LISTED ABOVE THAT HAVE NO CORRESPONDING PERMITS TO OPERATE NUMBER ARE ISSUED PERMITS TO CONSTRUCT. THE ISSUANCE OR DENIAL OF THEIR PERMITS TO OPERATE IS SUBJECT TO ENGINEERING FINAL REVIEW. ANY OTHER APPLICATIONS THAT ARE STILL BEING PROCESSED AND HAVE NOT BEEN ISSUED PERMITS TO CONSTRUCT OR PERMITS TO OPERATE WILL NOT BE FOUND IN THIS TITLE V PERMIT.

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FACILITY WIDE CONDITION(S)

Condition(s):

1. EXCEPT FOR OPEN ABRASIVE BLASTING OPERATIONS, THE OPERATOR SHALL NOT DISCHARGE INTO THE ATMOSPHERE FROM ANY SINGLE SOURCE OF EMISSIONS WHATSOEVER ANY AIR CONTAMINANT FOR A PERIOD OR PERIODS AGGREGATING MORE THAN THREE MINUTES IN ANY ONE HOUR WHICH IS:
 - A. AS DARK OR DARKER IN SHADE AS THAT DESIGNATED NO. 1 ON THE RINGELMANN CHART, AS PUBLISHED BY THE UNITED STATES BUREAU OF MINES; OR
 - B. OF SUCH OPACITY AS TO OBSCURE AN OBSERVER'S VIEW TO A DEGREE EQUAL TO OR GREATER THAN DOES SMOKE DESCRIBED IN SUBPARAGRAPH (A) OF THIS CONDITION.
[RULE 401]
2. THE OPERATOR SHALL NOT PURCHASE ANY DIESEL FUEL UNLESS THE FUEL IS LOW SULFUR DIESEL FOR WHICH THE SULFUR CONTENT SHALL NOT EXCEED 15 PPMV BY WEIGHT AS SUPPLIED BY THE SUPPLIER.
[RULE 431.2]
3. THE OPERATOR SHALL NOT USE OR SELL GASEOUS FUEL CONTAINING SULFUR COMPOUNDS IN EXCESS OF 40 PPMV CALCULATED AS HYDROGEN SULFIDE AVERAGED OVER FOUR HOURS.
[RULE 431.1]

FACILITY PERMIT TO OPERATE CITY OF HOPE

PERMIT TO OPERATE

**Permit No. D10962
A/N 175699**

Equipment Description:

STERILIZER, ETHYLENE OXIDE, CASTLE, MODEL NO. 3145, 20" W. X 36" L. X 20" H., WITH A 1/4- H.P. EXHAUST BLOWER.

Conditions:

1. OPERATION OF THIS EQUIPMENT MUST BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT MUST BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT MUST NOT BE USED TO PROCESS MORE THAN TWO LOADS IN ANY ONE DAY.
[RULE 1303(b)(2)-OFFSET]
4. A RECORD MUST BE PREPARED, INCLUDING THE NUMBER OF LOADS RUN DAILY TO DEMONSTRATE COMPLIANCE WITH CONDITION NO.3. THE RECORD FORMAT MUST BE APPROVED IN WRITING BY THE DIRECTOR OF ENFORCEMENT OF THE DISTRICT. IT MUST BE RETAINED FOR AT LEAST FIVE YEARS AND MUST BE MADE AVAILABLE FOR REVIEW AT THE REQUEST OF THE DISTRICT.
[RULE 1303(b)(2)-OFFSET]

Emissions And Requirements:

5. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS :

ETHYLENE OXIDE: RULE 1405(d)
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

FACILITY PERMIT TO OPERATE CITY OF HOPE

PERMIT TO OPERATE

**Permit No. D36401
A/N 217251**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CUMMINS, DIESEL-FUELED, EMERGENCY ELECTRICAL GENERATION, MODEL NO. NTA855-G2, 6 CYLINDERS, FOUR CYCLE, TURBOCHARGED, AFTERCOOLED, 465 BHP, WITH 1 EXHAUST.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE RETARDED A MINIMUM OF 4° (FOUR DEGREES) RELATIVE TO STANDARD TIMING.
[RULE 1303(a)(1)-BACT]
4. THE INJECTION IGNITION TIMING OF THIS ENGINE SHALL BE INSPECTED, ADJUSTED AND CERTIFIED, AT A MINIMUM, ONCE EVERY FIVE YEARS OF OPERATION. INSPECTIONS, ADJUSTMENTS, AND CERTIFICATIONS SHALL BE PERFORMED BY A QUALIFIED MECHANIC AND ACCORDING TO THE ENGINE MANUFACTURER'S PROCEDURES.
[RULE 1303(a)(1)-BACT]
5. THE ENGINE IS LIMITED TO AN OPERATING SCHEDULE OF NO MORE THAN 11.5 HOURS IN ANY ONE DAY AND NO MORE THAN 125 HOURS (CUMULATIVE) IN ANY ONE CALENDAR YEAR UNLESS ADDITIONAL HOURS ARE OTHERWISE AUTHORIZED BY THE EXECUTIVE OFFICER. THIS EQUIPMENT MAY ONLY OPERATE DURING MAINTENANCE TESTING, PERFORMANCE TESTING, OR IN CASES OF EMERGENCY.
[RULE 1304(a)-MODELING AND OFFSET]
6. THIS ENGINE SHALL NOT OPERATE MORE THAN 125 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 20 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]
7. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]

FACILITY PERMIT TO OPERATE CITY OF HOPE

8. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION. THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.

[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]

9. THE OPERATION OF THE ENGINE BEYOND THE 20 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.

[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]

10. THIS ENGINE SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF RULE 1470.

[RULE 1470]

Emissions And Requirements:

11. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

PM: RULE 1470

FACILITY PERMIT TO OPERATE CITY OF HOPE

PERMIT TO OPERATE

**Permit No. D22390
A/N 217252**

Equipment Description:

INTERNAL COMBUSTION ENGINE, FORD, PORTABLE, GASOLINE-FUELED, MODEL NO. F10B-435, SERIAL NO.6815, 8 CYLINDERS, FOUR CYCLE, NATURALLY ASPIRATED, 62 BHP, WITH 1 EXHAUST. -

Conditions:

1. OPERATION OF THIS EQUIPMENT MUST BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT MUST BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITIONS AT ALL TIMES.
[RULE 204]
3. THE IGNITION TIMING OF THIS ENGINE SHALL BE INSPECTED, ADJUSTED, AND CERTIFIED AT A MINIMUM OF ONCE EVERY THREE YEARS OF OPERATION. INSPECTIONS, ADJUSTMENTS, AND CERTIFICATIONS MUST BE PERFORMED BY A QUALIFIED MECHANIC AND DONE IN ACCORDANCE WITH THE ENGINE MANUFACTURER'S SPECIFICATIONS AND PROCEDURES.
[RULE 1303(a)(1)-BACT]

Periodic Monitoring:

4. THE OPERATOR SHALL MONITOR AND MAINTAIN ENGINE OPERATING LOG AS REQUIRED BY RULE 1110.2 FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO SCAQMD PERSONNEL UPON REQUEST.
[RULES 1110.2, 3004(a)(4)]

Emissions And Requirements:

5. THIS EQUIPMENT IS SUBJECT TO THE APPICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

CO: 176 PPM, RULE 1110.2
NOx: 80 PPM, RULE 1110.2
VOC: 240 PPM, RULE 1110.2
PM: RULE 404, SEE APPENDIX B FOR THE EMISSION LIMITS

FACILITY PERMIT TO OPERATE CITY OF HOPE

PERMIT TO OPERATE

**Permit No. D64727
A/N 269895**

Equipment Description:

INTERNAL COMBUSTION ENGINE NO.1, CATERPILLAR, MODEL NO. 3516, SERIAL NO. 25Z00808, FOUR CYCLE, LEAN BURN, TURBOCHARGED, AFTERCOOLED, DIESEL-FUELED, 2153 HP, DRIVING A 1500-KW EMERGENCY GENERATOR.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE SET AND MAINTAINED AT 4 DEGREES RETARDED RELATIVE TO STANDARD TIMING.
[RULE 1303(a)(1)-BACT]
4. THIS ENGINE SHALL NOT OPERATE MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 50 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]
5. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]
6. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION. THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]
7. THE OPERATION OF THE ENGINE BEYOND THE 50 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS

FACILITY PERMIT TO OPERATE CITY OF HOPE

TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.

[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]

8. THIS ENGINE SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF RULE 1470.

[RULE 1470]

Emissions And Requirements:

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

PM: RULE 1470

FACILITY PERMIT TO OPERATE CITY OF HOPE

PERMIT TO OPERATE

**Permit No. D64728
A/N 269896**

Equipment Description:

INTERNAL COMBUSTION ENGINE NO.2 CATERPILLAR, MODEL NO. 3516, SERIAL NO. 25Z00807, FOUR CYCLE, LEAN BURN, TURBOCHARGED, AFTERCOOLED, DIESEL-FUELED, 2153 HP, DRIVING A 1500-KW EMERGENCY GENERATOR.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE SET AND MAINTAINED AT 4 DEGREES RETARDED RELATIVE TO STANDARD TIMING.
[RULE 1303(a)(1)-BACT]
4. THIS ENGINE SHALL NOT OPERATE MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 50 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]
5. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]
6. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION. THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]
7. THE OPERATION OF THE ENGINE BEYOND THE 50 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS

FACILITY PERMIT TO OPERATE CITY OF HOPE

TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.

[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]

8. THIS ENGINE SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF RULE 1470.

[RULE 1470]

Emissions And Requirements:

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

PM: RULE 1470

FACILITY PERMIT TO OPERATE CITY OF HOPE

PERMIT TO OPERATE

**Permit No. D64729
A/N 269898**

Equipment Description:

INTERNAL COMBUSTION ENGINE NO.3, CATERPILLAR, MODEL NO. 3516, SERIAL NO. 25Z00809, FOUR CYCLE, LEAN BURN, TURBOCHARGED, AFTERCOOLED, DIESEL-FUELED, 2153 HP, DRIVING A 1500-KW EMERGENCY GENERATOR.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE SET AND MAINTAINED AT 4 DEGREES RETARDED RELATIVE TO STANDARD TIMING.
[RULE 1303(a)(1)-BACT]
4. THIS ENGINE SHALL NOT OPERATE MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 50 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]
5. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]
6. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION. THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470 []
7. THE OPERATION OF THE ENGINE BEYOND THE 50 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS

FACILITY PERMIT TO OPERATE CITY OF HOPE

TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.

[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]

8. THIS ENGINE SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF RULE 1470.

[RULE 1470]

Emissions And Requirements:

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

PM: RULE 1470

FACILITY PERMIT TO OPERATE CITY OF HOPE

PERMIT TO OPERATE

**Permit No. D71056
A/N 274107**

Equipment Description:

STERILIZER/AERATOR, ETHYLENE OXIDE GAS, AMSCO, MODEL NO. EAGLE 3028, SERIAL NUMBER 0109592-02, 1'-8" W. X 3'-2" L. X 1'-8" H; (INTERNAL DIMENSIONS), STEAM HEATED, WITH A 1 1/2 H.P. EXHAUST BLOWER.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE MAXIMUM NUMBER OF LOADS PROCESSED IN THIS EQUIPMENT SHALL NOT EXCEED TWO IN ANY ONE DAY AND TWENTY-FIVE IN ANY CALENDAR MONTH.
[RULE 1303(b)(2)-OFFSET]
4. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS THE STERILIZER IS VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND HAS BEEN ISSUED A PERMIT TO CONSTRUCT BY THE EXECUTIVE OFFICER.
[RULE 1405]
5. RECORDS SHALL BE MAINTAINED TO PROVE COMPLIANCE WITH CONDITIONS 3. THE RECORDS SHALL BE KEPT FOR A MINIMUM OF FIVE YEARS AND BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1303(b)(2)-OFFSET]

Emissions And Requirements:

6. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
ETHYLENE OXIDE: RULE 1405(d)
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

FACILITY PERMIT TO OPERATE CITY OF HOPE

PERMIT TO OPERATE

**Permit No. D71057
A/N 274108**

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. CATALYTIC OXIDIZER, DONALDSON, 1'-8" W. x 3'-2" L. x 1'-8" H; (EXTERNAL DIMENSIONS), STEAM HEATED, WITH A VACUUM PUMP AND A 1/2 H.P. EXHAUST BLOWER.
2. EXHAUST SYSTEM WITH A 0.6 H.P. BLOWER AND A 0.75 H.P. VACUUM PUMP VENTING THE STERILIZER/AERATOR.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE TEMPERATURE OF THE EXHAUST FROM THE CATALYST BED SHALL BE MAINTAINED BETWEEN 280 AND 550 DEGREES FAHRENHEIT AS INDICATED BY A PROPER TEMPERATURE GAUGE AND/OR RECORDER, WHEN THE ETHYLENE OXIDE STERILIZER/AERATOR IT SERVES IS IN OPERATION.
[RULE 1405]
4. THIS EQUIPMENT SHALL BE SUBJECT TO ANNUAL SOURCE TEST REQUIREMENT AS PER DISTRICT RULE 1405(d) (6).
[RULE 1405]
5. RECORDS SHALL BE MAINTAINED TO SHOW COMPLIANCE WITH CONDITION NUMBERS 3 AND THE RECORDS SHALL BE KEPT FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 1405]

Emissions And Requirements:

6. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
ETHYLENE OXIDE: RULE 1405(d)

FACILITY PERMIT TO OPERATE CITY OF HOPE

PERMIT TO OPERATE

**Permit No. D91222
A/N 303977**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, 6 CYLINDERS, TURBOCHARGED, AFTERCOOLED, MODEL NO. 3306 ATAAC, 377 BHP, DIESEL-FUELED, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. OPERATION OF THIS ENGINE FOR MAINTENANCE TESTING SHALL NOT EXCEED 0.5 HOUR A WEEK.
[RULE 1304(a)-MODELING AND OFFSET]
4. THIS ENGINE SHALL NOT OPERATE MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 50 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING PURPOSES.
[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]
5. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]
6. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION. THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]
7. THE OPERATION OF THE ENGINE BEYOND THE 50 HOURS PER YEAR ALLOTTED FOR ENGINE MAINTENANCE AND TESTING SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE ELECTRICAL GRID OPERATOR OR ELECTRIC UTILITY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS

FACILITY PERMIT TO OPERATE CITY OF HOPE

TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE.

[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]

8. THIS ENGINE SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF RULE 1470.

[RULE 1470]

Emissions And Requirements:

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

PM: RULE 1470

FACILITY PERMIT TO OPERATE CITY OF HOPE

PERMIT TO OPERATE

**Permit No. D98623
A/N 314936**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, 16 CYLINDERS, TURBOCHARGED, AFTERCOOLED, MODEL NO. 3516 DITA (2000 KW), 2847 BHP, DIESEL-FUELED, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE OPERATING TIME OF THIS ENGINE SHALL NOT EXCEED 64 HOURS IN ANY ONE YEAR.
[RULE 1304 (a)-MODELING AND OFFSET]
4. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE SET AND MAINTAINED AT 4 DEGREES RETARDED RELATIVE TO PRODUCTION TIMING AS ESTABLISHED BY CATERPILLAR IN PRODUCT NEWS BULLETIN REQUIREMENTS TO COMPLY WITH SCAQMD CERTIFIED EQUIPMENT.
[RULE 1303(a)(1)-BACT]
5. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]
6. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION. THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]
7. THIS ENGINE SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF RULE 1470.
[RULE 1470]

FACILITY PERMIT TO OPERATE CITY OF HOPE

Emissions And Requirements:

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
PM: RULE 1470

FACILITY PERMIT TO OPERATE CITY OF HOPE

PERMIT TO OPERATE

**Permit No. D98624
A/N 314937**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, 16 CYLINDERS, TURBOCHARGED, AFTERCOOLED, MODEL NO. 3516 DITA (2000 KW), SERIAL NO. 4XF00599, 2847 BHP, DIESEL-FUELED, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE OPERATING TIME OF THIS ENGINE SHALL NOT EXCEED 64 HOURS IN ANY ONE YEAR.
[RULE 1304 (a)-MODELING AND OFFSET]
4. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE SET AND MAINTAINED AT 4 DEGREES RETARDED RELATIVE TO PRODUCTION TIMING AS ESTABLISHED BY CATERPILLAR IN PRODUCT NEWS BULLETIN REQUIREMENTS TO COMPLY WITH SCAQMD CERTIFIED EQUIPMENT.
[RULE 1303(a)(1)-BACT]
5. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]
6. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION. THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]
7. THIS ENGINE SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF RULE 1470.
[RULE 1470]

FACILITY PERMIT TO OPERATE CITY OF HOPE

Emissions And Requirements:

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
PM: RULE 1470

FACILITY PERMIT TO OPERATE CITY OF HOPE

PERMIT TO OPERATE

**Permit No. D98625
A/N 314938**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, 16 CYLINDERS, TURBOCHARGED, AFTERCOOLED
MODEL NO. 3516 DITA (2000 KW), SERIAL NO. 4XF00600, 2847 BHP, DIESEL-FUELED, DRIVING AN
EMERGENCY ELECTRICAL GENERATOR.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE OPERATING TIME OF THIS ENGINE SHALL NOT EXCEED 64 HOURS IN ANY ONE YEAR.
[RULE 1304 (a)-MODELING AND OFFSET]
4. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE SET AND MAINTAINED AT 4 DEGREES RETARDED RELATIVE TO PRODUCTION TIMING AS ESTABLISHED BY CATERPILLAR IN PRODUCT NEWS BULLETIN REQUIREMENTS TO COMPLY WITH SCAQMD CERTIFIED EQUIPMENT.
[RULE 1303(a)(1)-BACT]
5. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]
6. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION. THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]
7. THIS ENGINE SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF RULE 1470.
[RULE 1470]

FACILITY PERMIT TO OPERATE CITY OF HOPE

Emissions And Requirements:

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
PM: RULE 1470

FACILITY PERMIT TO OPERATE CITY OF HOPE

PERMIT TO OPERATE

**Permit No. D98626
A/N 314939**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, 16 CYLINDERS, TURBOCHARGED, AFTERCOOLED, MODEL NO. 3516 DITA (2000 KW), 2847 BHP, DIESEL-FUELED, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE OPERATING TIME OF THIS ENGINE SHALL NOT EXCEED 64 HOURS IN ANY ONE YEAR.
[RULE 1304 (a)-MODELING AND OFFSET]
4. THE FUEL INJECTION TIMING OF THIS ENGINE SHALL BE SET AND MAINTAINED AT 4 DEGREES RETARDED RELATIVE TO PRODUCTION TIMING AS ESTABLISHED BY CATERPILLAR IN PRODUCT NEWS BULLETIN REQUIREMENTS TO COMPLY WITH SCAQMD CERTIFIED EQUIPMENT.
[RULE 1303(a)(1)-BACT]
5. AN OPERATIONAL NON-RESETTABLE TOTALIZING TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]
6. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED ON FILE TO RECORD WHEN THIS ENGINE IS STARTED MANUALLY. THE LOG SHALL LIST THE DATE OF OPERATION, THE TIMER READING IN HOURS AT THE BEGINNING AND END OF OPERATION, AND THE REASON FOR OPERATION. THE LOG SHALL BE KEPT FOR A MINIMUM OF FIVE CALENDAR YEARS PRIOR TO THE CURRENT YEAR AND MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR SHALL BE RECORDED DURING THE FIRST 15 DAYS OF JANUARY OF EACH YEAR.
[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]
7. THIS ENGINE SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF RULE 1470.
[RULE 1470]

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Emissions And Requirements:

8. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
PM: RULE 1470

FACILITY PERMIT TO OPERATE CITY OF HOPE

PERMIT TO OPERATE

**Permit No. F11044
A/N 316435**

Equipment Description:

BOILER #1, CLEAVER BROOKS, MODEL NO. CBI700-600-150ST, NATURAL GAS OR LIQUEFIED PETROLEUM GAS (LPG) FIRED, RATED AT 25,106,250 BTU PER HOUR, WITH ONE CLEAVER BROOKS INTEGRAL LOW-NOX BURNER AND AN INDUCED FLUE GAS RECIRCULATION SYSTEM.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS BOILER SHALL BE FIRED ON NATURAL GAS OR LIQUEFIED PETROLEUM GAS (LPG) ONLY.
[RULE 1303(a)(1)-BACT]
4. BOILER EMISSIONS SHALL NOT EXCEED 30 PPM FOR OXIDES OF NITROGEN (NO_x), AND 400 PPM OF CARBON MONOXIDE (CO), MEASURED BY VOLUME, ON A DRY BASIS, AT 3% O₂.
[RULE 1146, RULE 1303(a)(1)-BACT]
5. OPERATING RECORDS SHALL BE MAINTAINED TO RECORD THE DAILY USAGE OF NATURAL GAS OR LPG WHENEVER THE BOILER OPERATES. THE RECORDS SHALL BE KEPT ON FILE FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1303(b)(2)-OFFSET, RULE 1303(a)(1)-BACT, RULE 1146]

Periodic Monitoring:

6. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NO_x EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 7.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1303 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

FOR THE PURPOSE OF DETERMINING COMPLIANCE WITH RULE 1303 CONCENTRATION LIMIT, THE EMISSIONS SHALL BE MEASURED AND AVERAGED OVER A 60 MINUTE TIME PERIOD.

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[RULE 3004 (a)(4)]

7. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 10.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1303 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

FOR THE PURPOSE OF DETERMINING COMPLIANCE WITH RULE 1303 CONCENTRATION LIMIT, THE EMISSIONS SHALL BE MEASURED AND AVERAGED OVER A 60 MINUTE TIME PERIOD.

[RULE 3004 (a)(4)]

8. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSION FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THIS EQUIPMENT HAS COMBUSTED ONE MILLION GALLONS OF DIESEL FUEL, TO BE COUNTED CUMULATIVELY OVER A FIVE YEAR PERIOD. THE INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE HOUR, THE OPERATOR SHALL EITHER:
- A. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN THE SAME FASHION AS DEVIATIONS ARE REQUIRED TO BE REPORTED IN SECTION K OF THIS PERMIT; OR
 - B. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

IN ADDITION, THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a)(4)]

9. IF ANNUAL FUEL OIL USAGE EXCEEDS 2,000,000 GALLONS IN ANY ONE YEAR, THEN OPERATOR SHALL DETERMINE COMPLIANCE WITH THE PARTICULATE MATTER (PM) EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 5.2. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL

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CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 409 LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

FOR THE PURPOSE OF DETERMINING COMPLIANCE WITH RULE 409 LIMIT, THE EMISSIONS SHALL BE MEASURED AND AVERAGED OVER A 60 MINUTE TIME PERIOD.

THE OPERATOR SHALL CONDUCT AN ANNUAL MAINTENANCE INSPECTION CHECK OF THE OPERATING PRESSURE, TEMPERATURE, AIR SUPPLY, VENT, SMOKE SPOT, BURNER CONDITION, HEAT-TRANSFER SURFACE CONDITION, WATER TREATMENT, BLOWDOWN AND LEAKAGE

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

A. DATE WHEN ANNUAL MAINTENANCE INSPECTION WAS CONDUCTED.

[RULE 3004 (a)(4)]

10. FOR UNITS WITH A HEAT INPUT GREATER THAN 10 MMBTU/HR AND ANNUAL OIL USAGE GREATER THAN 1,000,000 GALLONS, OR GREATER THAN 336 HOURS OF OPERATION BUT NOT EXCEEDING 2,000,000 GALLONS IN ANY ONE YEAR, THE OPERATOR SHALL CONDUCT AN ANNUAL MAINTENANCE INSPECTION CHECK OF THE OPERATING PRESSURE, TEMPERATURE, AIR SUPPLY, VENT, SMOKE SPOT, BURNER CONDITION, HEAT-TRANSFER SURFACE CONDITION, WATER TREATMENT, BLOWDOWN AND LEAKAGE.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

A. DATE WHEN ANNUAL MAINTENANCE INSPECTION WAS CONDUCTED.

[RULE 3004 (a)(4)]

Emissions And Requirements:

11. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

NOX: 30 PPMV, RULE 1146, RULE 1303
CO: 400 PPMV, RULE 1146, RULE 1303
CO: 2000 PPMV, RULE 407
PM: 0.1 GR/SCF, RULE 409

FACILITY PERMIT TO OPERATE CITY OF HOPE

PERMIT TO OPERATE

**Permit No. F11046
A/N 316436**

Equipment Description:

BOILER #2, CLEAVER BROOKS, MODEL NO. CBI-700-600-150ST, NATURAL GAS OR LIQUEFIED PETROLEUM GAS (LPG) FIRED, RATED AT 25,106,250 BTU PER HOUR, WITH ONE CLEAVER BROOKS INTEGRAL LOW-NOX BURNER AND AN INDUCED FLUE GAS RECIRCULATION SYSTEM.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS BOILER SHALL BE FIRED ON NATURAL GAS OR LIQUEFIED PETROLEUM GAS (LPG) ONLY.
[RULE 1303(a)(1)-BACT]
4. BOILER EMISSIONS SHALL NOT EXCEED 30 PPM FOR OXIDES OF NITROGEN (NO_x), AND 400 PPM OF CARBON MONOXIDE (CO), MEASURED BY VOLUME, ON A DRY BASIS, AT 3% O₂.
[RULE 1146, RULE 1303(a)(1)-BACT]
5. OPERATING RECORDS SHALL BE MAINTAINED TO RECORD THE DAILY USAGE OF NATURAL GAS OR LPG WHENEVER THE BOILER OPERATES. THE RECORDS SHALL BE KEPT ON FILE FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1303(b)(2)-OFFSET, RULE 1303(a)(1)-BACT, RULE 1146]

Periodic Monitoring:

6. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NO_x EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 7.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1303 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

FOR THE PURPOSE OF DETERMINING COMPLIANCE WITH RULE 1303 CONCENTRATION LIMIT, THE EMISSIONS SHALL BE MEASURED AND AVERAGED OVER A 60 MINUTE

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TIME PERIOD.

[RULE 3004 (a)(4)]

7. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 10.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1303 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

FOR THE PURPOSE OF DETERMINING COMPLIANCE WITH RULE 1303 CONCENTRATION LIMIT, THE EMISSIONS SHALL BE MEASURED AND AVERAGED OVER A 60 MINUTE TIME PERIOD.

[RULE 3004 (a)(4)]

8. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSION FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THIS EQUIPMENT HAS COMBUSTED ONE MILLION GALLONS OF DIESEL FUEL, TO BE COUNTED CUMULATIVELY OVER A FIVE YEAR PERIOD. THE INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE HOUR, THE OPERATOR SHALL EITHER:

- A. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN THE SAME FASHION AS DEVIATIONS ARE REQUIRED TO BE REPORTED IN SECTION K OF THIS PERMIT; OR
- B. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

IN ADDITION, THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a)(4)]

9. IF ANNUAL FUEL OIL USAGE EXCEEDS 2,000,000 GALLONS IN ANY ONE YEAR, THEN OPERATOR SHALL DETERMINE COMPLIANCE WITH THE PARTICULATE MATTER (PM) EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD

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5.2 . THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 409 LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

FOR THE PURPOSE OF DETERMINING COMPLIANCE WITH RULE 409 LIMIT, THE EMISSIONS SHALL BE MEASURED AND AVERAGED OVER A 60 MINUTE TIME PERIOD.

THE OPERATOR SHALL CONDUCT AN ANNUAL MAINTENANCE INSPECTION CHECK OF THE OPERATING PRESSURE, TEMPERATURE, AIR SUPPLY, VENT, SMOKE SPOT, BURNER CONDITION, HEAT-TRANSFER SURFACE CONDITION, WATER TREATMENT, BLOWDOWN AND LEAKAGE

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

A. DATE WHEN ANNUAL MAINTENANCE INSPECTION WAS CONDUCTED.

[RULE 3004 (a)(4)]

10. FOR UNITS WITH A HEAT INPUT GREATER THAN 10 MMBTU/HR AND ANNUAL OIL USAGE GREATER THAN 1,000,000 GALLONS, OR GREATER THAN 336 HOURS OF OPERATION BUT NOT EXCEEDING 2,000,000 GALLONS IN ANY ONE YEAR, THE OPERATOR SHALL CONDUCT AN ANNUAL MAINTENANCE INSPECTION CHECK OF THE OPERATING PRESSURE, TEMPERATURE, AIR SUPPLY, VENT, SMOKE SPOT, BURNER CONDITION, HEAT-TRANSFER SURFACE CONDITION, WATER TREATMENT, BLOWDOWN AND LEAKAGE.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

A. DATE WHEN ANNUAL MAINTENANCE INSPECTION WAS CONDUCTED.

[RULE 3004 (a)(4)]

Emissions And Requirements:

11. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

NOX: 30 PPMV, RULE 1146, RULE 1303
CO: 400 PPMV, RULE 1146, RULE 1303
CO: 2000 PPMV, RULE 407
PM: 0.1 GR/SCF, RULE 409

FACILITY PERMIT TO OPERATE CITY OF HOPE

PERMIT TO OPERATE

**Permit No. F11047
A/N 316437**

Equipment Description:

BOILER #3, CLEAVER BROOKS, MODEL NO. CBI-700-600-150ST, NATURAL GAS OR LIQUEFIED PETROLEUM GAS (LPG) FIRED, RATED AT 25,106,250 BTU PER HOUR, WITH ONE CLEAVER BROOKS INTEGRAL LOW-NOX BURNER AND AN INDUCED FLUE GAS RECIRCULATION SYSTEM.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS BOILER SHALL BE FIRED ON NATURAL GAS OR LIQUEFIED PETROLEUM GAS (LPG) ONLY.
[RULE 1303(a)(1)-BACT]
4. BOILER EMISSIONS SHALL NOT EXCEED 30 PPM FOR OXIDES OF NITROGEN (NO_x), AND 400 PPM OF CARBON MONOXIDE (CO), MEASURED BY VOLUME, ON A DRY BASIS, AT 3% O₂.
[RULE 1146, RULE 1303(a)(1)-BACT]
5. OPERATING RECORDS SHALL BE MAINTAINED TO RECORD THE DAILY USAGE OF NATURAL GAS OR LPG WHENEVER THE BOILER OPERATES. THE RECORDS SHALL BE KEPT ON FILE FOR AT LEAST FIVE YEARS AND MADE AVAILABLE TO AQMD PERSONNEL UPON REQUEST.
[RULE 1303(b)(2)-OFFSET, RULE 1303(a)(1)-BACT, RULE 1146]

Periodic Monitoring:

6. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 7.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1303 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

FOR THE PURPOSE OF DETERMINING COMPLIANCE WITH RULE 1303 CONCENTRATION LIMIT, THE EMISSIONS SHALL BE MEASURED AND AVERAGED OVER A 60 MINUTE

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TIME PERIOD.

[RULE 3004 (a)(4)]

7. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 10.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1303 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

FOR THE PURPOSE OF DETERMINING COMPLIANCE WITH RULE 1303 CONCENTRATION LIMIT, THE EMISSIONS SHALL BE MEASURED AND AVERAGED OVER A 60 MINUTE TIME PERIOD.

[RULE 3004 (a)(4)]

8. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSION FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THIS EQUIPMENT HAS COMBUSTED ONE MILLION GALLONS OF DIESEL FUEL, TO BE COUNTED CUMULATIVELY OVER A FIVE YEAR PERIOD. THE INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE HOUR, THE OPERATOR SHALL EITHER:
- A. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN THE SAME FASHION AS DEVIATIONS ARE REQUIRED TO BE REPORTED IN SECTION K OF THIS PERMIT; OR
 - B. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

IN ADDITION, THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.

[RULE 3004 (a)(4)]

9. IF ANNUAL FUEL OIL USAGE EXCEEDS 2,000,000 GALLONS IN ANY ONE YEAR, THEN OPERATOR SHALL DETERMINE COMPLIANCE WITH THE PARTICULATE MATTER (PM) EMISSION LIMIT(S) BY CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD

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5.2 . THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 409 LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

FOR THE PURPOSE OF DETERMINING COMPLIANCE WITH RULE 409 LIMIT, THE EMISSIONS SHALL BE MEASURED AND AVERAGED OVER A 60 MINUTE TIME PERIOD.

THE OPERATOR SHALL CONDUCT AN ANNUAL MAINTENANCE INSPECTION CHECK OF THE OPERATING PRESSURE, TEMPERATURE, AIR SUPPLY, VENT, SMOKE SPOT, BURNER CONDITION, HEAT-TRANSFER SURFACE CONDITION, WATER TREATMENT, BLOWDOWN AND LEAKAGE

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

A. DATE WHEN ANNUAL MAINTENANCE INSPECTION WAS CONDUCTED.

[RULE 3004 (a)(4)]

10. FOR UNITS WITH A HEAT INPUT GREATER THAN 10 MMBTU/HR AND ANNUAL OIL USAGE GREATER THAN 1,000,000 GALLONS, OR GREATER THAN 336 HOURS OF OPERATION BUT NOT EXCEEDING 2,000,000 GALLONS IN ANY ONE YEAR, THE OPERATOR SHALL CONDUCT AN ANNUAL MAINTENANCE INSPECTION CHECK OF THE OPERATING PRESSURE, TEMPERATURE, AIR SUPPLY, VENT, SMOKE SPOT, BURNER CONDITION, HEAT-TRANSFER SURFACE CONDITION, WATER TREATMENT, BLOWDOWN AND LEAKAGE.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

A. DATE WHEN ANNUAL MAINTENANCE INSPECTION WAS CONDUCTED.

[RULE 3004 (a)(4)]

Emissions And Requirements:

11. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

NOX: 30 PPMV, RULE 1146, RULE 1303
CO: 400 PPMV, RULE 1146, RULE 1303
CO: 2000 PPMV, RULE 407
PM: 0.1 GR/SCF, RULE 409

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PERMIT TO OPERATE

**Permit No. F26612
A/N 355721**

Equipment Description:

CHARBROILER, MAGIKITCH'N, SERIAL NO. 23306, 3'-0" W. X 2'-6" L. X 3'-6" H., RATED AT 240,000 BTU PER HOUR, WITH SIX NATURAL GAS BURNERS.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL BE FIRED ON NATURAL GAS ONLY.
[RULE 1303(a)(1)-BACT]

Periodic Monitoring:

4. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSION FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THIS EQUIPMENT HAS COMBUSTED ONE MILLION GALLONS OF DIESEL FUEL, TO BE COUNTED CUMULATIVELY OVER A FIVE YEAR PERIOD. THE INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE HOUR, THE OPERATOR SHALL EITHER:
 - A. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN THE SAME FASHION AS DEVIATIONS ARE REQUIRED TO BE REPORTED IN SECTION K OF THIS PERMIT; OR
 - B. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

IN ADDITION, THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;

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C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND

D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.
[RULE 3004 (a)(4)]

Emissions And Requirements:

5. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

CO: 2000 PPMV, RULE 407
PM: 0.1 GR/SCF, RULE 409
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

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PERMIT TO OPERATE

**Permit No. F73865
A/N 411676**

Equipment Description:

BOILER, MIURA, WATER TUBE TYPE, MODEL NO. LX-100, SERIAL NO. 46S47818, RATED AT 4,200,000 BTU PER HOUR, NATURAL GAS-FIRED, WITH ONE MIURA LOW NOX BURNER.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS BOILER SHALL COMPLY WITH THE REQUIREMENTS OF RULE 1146.1.
[RULE 1146.1]
4. THIS BOILER SHALL EMIT NO MORE THAN 12 PPM OF OXIDES OF NITROGEN (NOX), CALCULATED AS NO₂, AND NO MORE THAN 100 PPM OF CARBON MONOXIDE (CO), ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% O₂.
[RULE 1303(a)(1)-BACT]
5. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TESTING ACCORDING TO THE CONDITIONS IN THIS PERMIT.
[RULE 217]
6. SOURCE TESTING SHALL BE CONDUCTED WITHIN 180 DAYS AFTER INITIAL START-UP OF THIS EQUIPMENT OR WITHIN 60 DAYS AFTER RECEIPT OF THIS PERMIT, UNLESS OTHERWISE APPROVED IN WRITING BY THE EXECUTIVE OFFICER.
[RULE 217]
7. SOURCE TESTING SHALL BE PERFORMED TO VERIFY COMPLIANCE WITH NOX AND CO EMISSION LIMITS SPECIFIED IN CONDITION NO. 4.
[RULE 217, RULE 1303(a)(1)-BACT]
8. SOURCE TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH SCAQMD METHOD 100.1. THE TESTS SHALL BE CONDUCTED WHILE THE BOILER IS OPERATING AT MAXIMUM, MINIMUM, AND AVERAGE FIRING RATES.
[RULE 217]

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9. WRITTEN NOTICE OF THE SOURCE TESTS SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P.O. BOX 4941, DIAMOND BAR, CA 91765) AT LEAST 14 DAYS PRIOR TO TESTING SO THAT AN OBSERVER MAY BE PRESENT.
[RULE 217]
10. TWO COMPLETE COPIES OF THE SOURCE TEST REPORTS SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P.O. BOX 4941, DIAMOND BAR, CA 91765), WITHIN 45 DAYS AFTER THE TEST. THE REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO EMISSIONS RATES IN POUNDS PER HOUR AND CONCENTRATIONS IN PPMV AT THE OUTLET OF THE BOILER, MEASURED ON A DRY BASIS AT 3% OXYGEN. THE FOLLOWING OPERATING DATA SHALL ALSO BE INCLUDED FOR EACH FIRING RATE:
- I. THE EXHAUST FLOW RATES, IN ACTUAL CUBIC FEET PER MINUTE (ACFM).
 - II. THE FIRING RATES, IN BTU PER HOUR.
 - III. THE EXHAUST TEMPERATURE, IN DEGREES FAHRENHEIT.
 - IV. THE OXYGEN CONTENT OF THE EXHAUST GASES, IN PERCENT, AND
 - V. THE FUEL FLOW RATE.
- [RULE 217]
11. A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR CRITERIA POLLUTANT TO BE MEASURED, AND IN COMPLIANCE WITH DISTRICT RULE 304 (NO CONFLICT OF INTEREST) SHALL CONDUCT THE TEST.
[RULE 217]
12. SAMPLING FACILITIES SHALL COMPLY WITH THE DISTRICT GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES, PURSUANT TO RULE 217.
[RULE 217]

Periodic Monitoring:

13. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX EMISSION LIMIT(S) BY CONDUCTING A TEST AT LEAST ONCE EVERY FIVE YEARS USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD OR, IF NOT AVAILABLE, A NON- AQMD APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1303 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]
14. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) BY CONDUCTING A TEST AT LEAST ONCE EVERY FIVE YEARS USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD OR, IF NOT AVAILABLE, A NON-AQMD APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1303 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]

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Emissions And Requirements:

15. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

NOx: 30 PPMV, RULE 1146.1
NOx: 12 PPMV, RULE 1303
CO: 100 PPMV, RULE 1303
CO: 400 PPMV, RULE 1146.1
CO: 2000 PPMV, RULE 407
PM: 0.1 GR/SCF, RULE 409

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PERMIT TO OPERATE

**Permit No. N14408
A/N 430068**

Equipment Description:

Fuel Storage and Dispensing Facility Consisting of

1. 1 - GASOLINE ABOVEGROUND STORAGE TANK, CONTAINMENT SOLUTIONS HOOVERVAULT (G-70-194), RECTANGULAR, 11'-10" L X 6'-11" W X 4'-9" H, 2,000 GALLON CAPACITY, CONCRETE INSULATION, EQUIPPED WITH A PRESSURE/VACUUM RELIEF VALVE, AND A SUBMERGED FILL TUBE
2. 1 - GASOLINE NOZZLE DISPENSING 1 PRODUCT ON A TANK TOP MOUNTED DISPENSER, EQUIPPED WITH PHASE II VAPOR RECOVERY SYSTEM, BALANCE RETRACTOR (G-70-52-AM)

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. ALL PERMIT CONDITIONS APPLICABLE TO THE EQUIPMENT DESCRIBED IN THE PREVIOUS PERMIT TO OPERATE M99223 SHALL REMAIN IN EFFECT UNTIL THE NEW OR MODIFIED EQUIPMENT IS CONSTRUCTED AND OPERATED AS DESCRIBED IN THIS NEW PERMIT. THIS PERMIT TO CONSTRUCT/OPERATE SHALL BECOME INVALID IF THE MODIFICATION AS DESCRIBED IN THE EQUIPMENT DESCRIPTION HAS NOT BEEN COMPLETED WITHIN ONE YEAR FROM THE ISSUE DATE.
[RULE 203]
4. EXCEPT FOR DIESEL TRANSFERS, PHASE I VAPOR RECOVERY SYSTEMS SHALL BE IN FULL OPERATION WHENEVER FUEL IS BEING TRANSFERRED INTO STORAGE TANKS.
[RULE 461]
5. EXCEPT FOR DIESEL TRANSFERS, PHASE II VAPOR RECOVERY SYSTEMS SHALL BE IN FULL OPERATION WHENEVER FUEL IS BEING TRANSFERRED INTO MOTOR VEHICLES, AS DEFINED IN RULE 461.
[RULE 461]
6. ALL PHASE I AND PHASE II VAPOR RECOVERY EQUIPMENT AT THIS FACILITY SHALL BE INSTALLED, OPERATED AND MAINTAINED TO MEET ALL CALIFORNIA AIR RESOURCES BOARD CERTIFICATION REQUIREMENTS.
[RULE 461, RULE 1303 (a)(1)-BACT]

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7. THE PHASE II VAPOR RECOVERY SYSTEM SHALL BE INSTALLED, OPERATED, AND MAINTAINED SUCH THAT THE MAXIMUM ALLOWABLE PRESSURE THROUGH THE SYSTEM INCLUDING NOZZLE, VAPOR HOSE, SWIVELS, AND UNDERGROUND PIPING DOES NOT EXCEED THE DYNAMIC BACK PRESSURES DESCRIBED BY THE CALIFORNIA AIR RESOURCES BOARD EXECUTIVE ORDER BY WHICH THE SYSTEM WAS CERTIFIED.

NITROGEN FLOWRATES	DYNAMIC BACK PRESSURE
(CFH)	(INCHES OF WATER)
60	0.35
80	0.62

DYNAMIC BACK PRESSURE TESTS SHALL BE CONDUCTED TO DETERMINE THE PHASE II SYSTEM VAPOR RECOVERY BACK PRESSURES THE TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH CARB TEST PROCEDURE TP-201 4, METHODOLOGY I RESULTS SHALL BE SUBMITTED TO THE AQMD OFFICE OF ENGINEERING AND COMPLIANCE, WITHIN SEVENTY-TWO (72) HOURS OF TESTS

THE AQMD SHALL BE NOTIFIED BY E-MAIL AT R46ITESTING@AQMD.GOV OR BY FACSIMILE AT TELEPHONE NUMBER (909) 96-3606 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO TESTING SUCH NOTIFICATION SHALL INCLUDE THE NAME OF THE OWNER OR OPERATOR, THE NAME OF THE CONTRACTOR, THE LOCATION OF THE FACILITY, AND THE SCHEDULED START AND COMPLETION DATES OF THE DYNAMIC BACK PRESSURE TESTS.

[RULE 461]

8. A STATIC PRESSURE LEAK DECAY TEST SHALL BE CONDUCTED TO DEMONSTRATE THAT THE STORAGE TANKS, THE REMOTE AND/OR NOZZLE VAPOR RECOVERY CHECK VALVES, ASSOCIATED VAPOR RETURN PIPING AND FITTINGS ARE FREE FROM VAPOR LEAKS THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH CARE TEST PROCEDURE METHOD TP-201 3 RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE, WITHIN SEVENTY-TWO (72) HOURS OF TEST.

THE AQMD SHALL BE NOTIFIED BY E-MAIL AT R46ITESTING@AQMD.GOV OR BY FACSIMILE AT TELEPHONE NUMBER (909) 396-3606 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO TESTING SUCH NOTIFICATION SHALL INCLUDE THE NAME OF THE OWNER OR OPERATOR, THE NAME OF THE CONTRACTOR, THE LOCATION OF THE FACILITY, AND THE SCHEDULED START AND COMPLETION DATES OF THE STATIC PRESSURE LEAK DECAY TEST.

[RULE 461]

9. IF THE CARB EXECUTIVE ORDER REQUIRES THE INSTALLATION OF A LIQUID REMOVAL DEVICE, A LIQUID REMOVAL PATE TEST SHALL BE CONDUCTED TO DEMONSTRATE THE REMOVAL OF GASOLINE FROM THE VAPOR PASSAGE OF THE COAXIAL HOSE THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH CARE TEST PROCEDURE METHOD TP-201 6 RESULTS SHALL BE SUBMITTED TO THE AQMD, OFFICE OF ENGINEERING AND COMPLIANCE, WITHIN SEVENTY-TWO (72) HOURS OF TEST.

THE AQMD SHALL BE NOTIFIED BY E-MAIL AT R46ITESTING@AQMD.GOV OR BY FACSIMILE AT TELEPHONE NUMBER (909) 396-3606 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO TESTING SUCH NOTIFICATION SHALL INCLUDE THE NAME OF THE OWNER OR OPERATOR, THE NAME

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OF THE CONTRACTOR, THE LOCATION OF THE FACILITY, AND THE SCHEDULED START AND COMPLETION DATES OF THE LIQUID RMOVAL RATE TEST.

[RULE 461]

10. THE TESTING FOR THE ABOVE MENTIONED TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH THE MOST RECENT RULE 461 AMENDMENT OR CARB EXECUTIVE ORDER REQUIREMENTS, WHICHEVER IS MORE STRINGENT.

[RULE 461]

11. ALL RECORDS AND TEST RESULTS THAT ARE REQUIRED TO BE MAINTAINED BY RULE 461 SHALL BE KEPT ON SITE AND MADE AVAILABLE TO DISTRICT REPRESENTATIVES UPON REQUEST.

[RULE 461]

Periodic Monitoring:

12. THE OPERATOR SHALL HAVE A PERSON THAT HAS BEEN TRAINED IN ACCORDANCE WITH RULE 461(C)(6) CONDUCT A SEMI-ANNUAL INSPECTION OF THE GASOLINE TRANSFER AND DISPENSING EQUIPMENT. THE FIRST INSPECTION SHALL BE IN ACCORDANCE WITH RULE 461, ATTACHMENT C, THE SECOND INSPECTION SHALL BE IN ACCORDANCE WITH RULE 461, ATTACHMENT D, AND THE SUBSEQUENT INSPECTIONS SHALL ALTERNATE PROTOCOLS. THE OPERATOR SHALL KEEP RECORDS OF THE INSPECTION AND THE REPAIRS IN ACCORDANCE TO RULE 461 AND SECTION K OF THIS PERMIT.

[RULE 3004 (a)(4)]

Emissions And Requirements:

13. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 461

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PERMIT TO OPERATE

**Permit No.
A/N 452326**

Equipment Description:

INTERNAL COMBUSTION ENGINE, CATERPILLAR, DIESEL-FUELED, EMERGENCY ELECTRICAL GENERATION, MODEL NO. 3304BDITA, SERIAL NO. 9HK00371, TURBOCHARGED, AFTERCOOLED, FOUR CYLINDERS, 167 BHP.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS ENGINE SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF RULE 431.2 AND RULE 1470.
[RULE 1470, RULE 431.2]
4. THIS ENGINE SHALL NOT BE OPERATED MORE THAN 200 HOURS IN ANY ONE YEAR, WHICH INCLUDES NO MORE THAN 50 HOURS IN ANY ONE YEAR FOR MAINTENANCE AND TESTING AND NO MORE THAN 4.2 HOURS IN ANY ONE MONTH FOR MAINTENANCE AND TESTING.
[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]
5. OPERATING BEYOND THE 50 HOURS PER YEAR ALLOTTED FOR MAINTENANCE AND TESTING PURPOSES SHALL BE ALLOWED ONLY IN THE EVENT OF A LOSS OF GRID POWER OR UP TO 30 MINUTES PRIOR TO A ROTATING OUTAGE, PROVIDED THAT THE UTILITY DISTRIBUTION COMPANY HAS ORDERED ROTATING OUTAGES IN THE CONTROL AREA WHERE THE ENGINE IS LOCATED OR HAS INDICATED THAT IT EXPECTS TO ISSUE SUCH AN ORDER AT A CERTAIN TIME, AND THE ENGINE IS LOCATED IN A UTILITY SERVICE BLOCK THAT IS SUBJECT TO THE ROTATING OUTAGE. ENGINE OPERATION SHALL BE TERMINATED IMMEDIATELY AFTER THE UTILITY DISTRIBUTION COMPANY ADVISES THAT A ROTATING OUTAGE IS NO LONGER IMMINENT OR IN EFFECT.
[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]
6. AN OPERATIONAL NON-RESETTABLE ELAPSED TIME METER SHALL BE INSTALLED AND MAINTAINED TO INDICATE THE ENGINE ELAPSED OPERATING TIME.
[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]

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7. AN ENGINE OPERATING LOG SHALL BE KEPT AND MAINTAINED, DOCUMENTING THE TOTAL TIME THE ENGINE IS OPERATED EACH MONTH AND SPECIFIC REASON FOR OPERATION AS:

- A. EMERGENCY USE.
- B. MAINTENANCE AND TESTING.
- C. OTHER (DESCRIBE THE REASON FOR OPERATING).

IN ADDITION, EACH TIME THE ENGINE IS MANUALLY STARTED, THE LOG SHALL INCLUDE THE DATE OF OPERATION, THE SPECIFIC REASON FOR OPERATION, AND THE TOTALIZING HOUR METER READING (IN HOURS AND TENTHS OF HOURS) AT THE BEGINNING AND END OF OPERATION.

[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]

8. ON OR BEFORE JANUARY 15TH OF EACH YEAR, THE OPERATOR SHALL RECORD IN THE ENGINE OPERATING LOG THE FOLLOWING:

- A. THE TOTAL HOURS OF OPERATION FOR THE PREVIOUS CALENDAR YEAR, AND
- B. THE TOTAL HOURS OF ENGINE OPERATION FOR MAINTENANCE AND TESTING FOR THE PREVIOUS CALENDAR YEAR.

THE ENGINE OPERATING LOG SHALL BE RETAINED ON SITE FOR A MINIMUM OF THREE CALENDAR YEARS AND SHALL BE MADE AVAILABLE TO THE EXECUTIVE OFFICER OR REPRESENTATIVE UPON REQUEST.

[RULE 1303 (b)(2)-OFFSET, RULE 1304(a)-MODELING AND OFFSET, RULE 1470]

Emissions And Requirements:

9. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

PM: RULE 1470

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PERMIT TO CONSTRUCT

**Permit No.
A/N 509812**

Equipment Description:

BOILER, NO. 1, CLEAVER BROOKS, FIRETUBE TYPE, MODEL NO. CBLE-700-600-150-ST, WITH ONE LOW NOX BURNER, POWER FLAME, MODEL NO. NVC11CBR-G-40, NATURAL GAS FIRED WITH LIQUEFIED PETROLEUM GAS (LPG) STAND-BY FUEL, RATED AT 25,200,000 BTU PER HOUR.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS BOILER SHALL BE FIRED WITH NATURAL GAS ONLY, EXCEPT DURING TESTING, MAINTENANCE, NATURAL GAS CURTAILMENT OR AN EMERGENCY EVENT, AT WHICH TIME LIQUEFIED PETROLEUM GAS (LPG) MAY BE USED.
[RULE 1146]
4. THIS BOILER SHALL BE OPERATED IN COMPLIANCE WITH THE REQUIREMENTS OF RULE 1146.
[RULE 1146]
5. THIS BOILER SHALL NOT EMIT MORE THAN 9 PPM FOR OXIDES OF NITROGEN (NOX) CALCULATED AS NO₂, AND NOT MORE THAN 50 PPM OF CARBON MONOXIDE (CO), ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% OXYGEN AND AVERAGED OVER A PERIOD OF 15 CONSECUTIVE MINUTES, WHEN FIRED USING NATURAL GAS.
THIS BOILER SHALL NOT EMIT MORE THAN 40 PPM OF OXIDES OF NITROGEN (NOX), CALCULATED AS NO₂, AND NOT MORE THAN 400 PPM OF CARBON MONOXIDE (CO), ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% OXYGEN AND AVERAGED OVER A PERIOD OF 15 CONSECUTIVE MINUTES, WHEN FIRED USING LIQUEFIED PETROLEUM GAS (LPG).
[RULE 1146]

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6. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TESTS UNDER THE FOLLOWING CONDITIONS:
 - A. SOURCE TESTING SHALL BE CONDUCTED WITHIN 60 DAYS AFTER INITIAL START-UP UNLESS OTHERWISE APPROVED IN WRITING BY THE EXECUTIVE OFFICER.
 - B. THE SOURCE TESTS SHALL BE PERFORMED TO VERIFY COMPLIANCE WITH THE NO_x AND CO EMISSION LIMITS SPECIFIED IN CONDITION NO. 5.
 - C. THE TESTS SHALL BE CONDUCTED WHILE THE BOILER IS FIRING AT MAXIMUM, MINIMUM AND AVERAGE FIRING RATES.
 - D. WRITTEN NOTICE OF THE SOURCE TESTS SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P.O. BOX 4941, DIAMOND BAR, CA 91765) AT LEAST 10 DAYS PRIOR TO TESTING SO THAT AN OBSERVER MAY BE PRESENT.
 - E. TWO COMPLETE COPIES OF THE SOURCE TEST REPORTS SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P.O. BOX 4941, DIAMOND BAR, CA 91765) WITHIN 30 DAYS AFTER THE TEST. THE REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO EMISSIONS RATES IN POUNDS PER HOUR AND CONCENTRATIONS IN PPMV AT THE OUTLET OF THE HEATER, MEASURED ON A DRY BASIS AT 3% OXYGEN. THE FOLLOWING OPERATING DATA SHALL ALSO BE INCLUDED FOR EACH FIRING RATE:
 - I. THE EXHAUST FLOW RATES, IN ACTUAL CUBIC FEET PER MINUTE (ACFM).
 - II. THE FIRING RATES, IN BTU PER HOUR.
 - III. THE EXHAUST TEMPERATURE, IN DEGREES FAHRENHEIT.
 - IV. THE OXYGEN CONTENT OF THE EXHAUST GASES, IN PERCENT.
 - V. THE FUEL FLOW RATE.
 - F. A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR CRITERIA POLLUTANT TO BE MEASURED, AND IN COMPLIANCE WITH DISTRICT RULE 304 (NO CONFLICT OF INTEREST) SHALL CONDUCT THE TEST.
 - G. SAMPLING FACILITIES SHALL COMPLY WITH THE DISTRICT GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES PURSUANT TO RULE 217.
[RULE 1146]
7. THE COMBUSTION BURNER SHALL BE INSPECTED AND MAINTAINED PER MANUFACTURER SPECIFICATIONS. RECORDS SHALL BE MAINTAINED FOR THE INSPECTIONS AND MAINTENANCE OF THE BURNER.
[RULE 1146]
8. THE OPERATOR OF THIS BOILER SHALL COMPLY WITH SOURCE TESTING REQUIREMENTS IN SUBDIVISION (d)-COMPLIANCE DETERMINATION OF RULE 1146 FOR BOTH NATURAL GAS AND LPG.
[RULE 1146]

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9. THE OPERATOR OF THIS BOILER SHALL KEEP A RECORD OF THE LPG FUEL USAGE (WHEN USED AS BACK-UP FUEL) OF THIS EQUIPMENT. RECORDS SHALL INCLUDE THE DATE THE BOILER IS FIRED USING LPG, THE SPECIFIC REASON, AND THE TOTALIZING FUEL METER READING AT THE BEGINNING AND OF THE OPERATION.

[RULE 1146]

10. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE KEPT FOR A MINIMUM OF FIVE YEARS AND BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

[RULE 3004(a)(4)-Periodic Monitoring]

FACILITY PERMIT TO OPERATE CITY OF HOPE

PERMIT TO CONSTRUCT

**Permit No.
A/N 509813**

Equipment Description:

BOILER, NO. 2, CLEAVER BROOKS, FIRETUBE TYPE, MODEL NO. CBLE-700-600-150-ST, WITH ONE LOW NOX BURNER, POWER FLAME, MODEL NO. NVC11CBR-G-40, NATURAL GAS FIRED WITH LIQUEFIED PETROLEUM GAS (LPG) STAND-BY FUEL, RATED AT 25,200,000 BTU PER HOUR.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS BOILER SHALL BE FIRED WITH NATURAL GAS ONLY, EXCEPT DURING TESTING, MAINTENANCE, NATURAL GAS CURTAILMENT OR AN EMERGENCY EVENT, AT WHICH TIME LIQUEFIED PETROLEUM GAS (LPG) MAY BE USED.
[RULE 1146]
4. THIS BOILER SHALL BE OPERATED IN COMPLIANCE WITH THE REQUIREMENTS OF RULE 1146.
[RULE 1146]
5. THIS BOILER SHALL NOT EMIT MORE THAN 9 PPM FOR OXIDES OF NITROGEN (NOX) CALCULATED AS NO₂, AND NOT MORE THAN 50 PPM OF CARBON MONOXIDE (CO), ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% OXYGEN AND AVERAGED OVER A PERIOD OF 15 CONSECUTIVE MINUTES, WHEN FIRED USING NATURAL GAS.
THIS BOILER SHALL NOT EMIT MORE THAN 40 PPM OF OXIDES OF NITROGEN (NOX), CALCULATED AS NO₂, AND NOT MORE THAN 400 PPM OF CARBON MONOXIDE (CO), ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% OXYGEN AND AVERAGED OVER A PERIOD OF 15 CONSECUTIVE MINUTES, WHEN FIRED USING LIQUEFIED PETROLEUM GAS (LPG).
[RULE 1146]

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6. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TESTS UNDER THE FOLLOWING CONDITIONS:
- A. SOURCE TESTING SHALL BE CONDUCTED WITHIN 60 DAYS AFTER INITIAL START-UP UNLESS OTHERWISE APPROVED IN WRITING BY THE EXECUTIVE OFFICER.
 - B. THE SOURCE TESTS SHALL BE PERFORMED TO VERIFY COMPLIANCE WITH THE NO_x AND CO EMISSION LIMITS SPECIFIED IN CONDITION NO. 5.
 - C. THE TESTS SHALL BE CONDUCTED WHILE THE BOILER IS FIRING AT MAXIMUM, MINIMUM AND AVERAGE FIRING RATES.
 - D. WRITTEN NOTICE OF THE SOURCE TESTS SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P.O. BOX 4941, DIAMOND BAR, CA 91765) AT LEAST 10 DAYS PRIOR TO TESTING SO THAT AN OBSERVER MAY BE PRESENT.
 - E. TWO COMPLETE COPIES OF THE SOURCE TEST REPORTS SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P.O. BOX 4941, DIAMOND BAR, CA 91765) WITHIN 30 DAYS AFTER THE TEST. THE REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO EMISSIONS RATES IN POUNDS PER HOUR AND CONCENTRATIONS IN PPMV AT THE OUTLET OF THE HEATER, MEASURED ON A DRY BASIS AT 3% OXYGEN. THE FOLLOWING OPERATING DATA SHALL ALSO BE INCLUDED FOR EACH FIRING RATE:
 - I. THE EXHAUST FLOW RATES, IN ACTUAL CUBIC FEET PER MINUTE (ACFM).
 - II. THE FIRING RATES, IN BTU PER HOUR.
 - III. THE EXHAUST TEMPERATURE, IN DEGREES FAHRENHEIT.
 - IV. THE OXYGEN CONTENT OF THE EXHAUST GASES, IN PERCENT.
 - V. THE FUEL FLOW RATE.
 - F. A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR CRITERIA POLLUTANT TO BE MEASURED, AND IN COMPLIANCE WITH DISTRICT RULE 304 (NO CONFLICT OF INTEREST) SHALL CONDUCT THE TEST.
 - G. SAMPLING FACILITIES SHALL COMPLY WITH THE DISTRICT GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES PURSUANT TO RULE 217.
[RULE 1146]
7. THE COMBUSTION BURNER SHALL BE INSPECTED AND MAINTAINED PER MANUFACTURER SPECIFICATIONS. RECORDS SHALL BE MAINTAINED FOR THE INSPECTIONS AND MAINTENANCE OF THE BURNER.
[RULE 1146]
8. THE OPERATOR OF THIS BOILER SHALL COMPLY WITH SOURCE TESTING REQUIREMENTS IN SUBDIVISION (d)-COMPLIANCE DETERMINATION OF RULE 1146 FOR BOTH NATURAL GAS AND LPG.
[RULE 1146]

FACILITY PERMIT TO OPERATE CITY OF HOPE

9. THE OPERATOR OF THIS BOILER SHALL KEEP A RECORD OF THE LPG FUEL USAGE (WHEN USED AS BACK-UP FUEL) OF THIS EQUIPMENT. RECORDS SHALL INCLUDE THE DATE THE BOILER IS FIRED USING LPG, THE SPECIFIC REASON, AND THE TOTALIZING FUEL METER READING AT THE BEGINNING AND OF THE OPERATION.
[RULE 1146]
10. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE KEPT FOR A MINIMUM OF FIVE YEARS AND BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 3004(a)(4)-Periodic Monitoring]

FACILITY PERMIT TO OPERATE CITY OF HOPE

PERMIT TO CONSTRUCT

**Permit No.
A/N 509814**

Equipment Description:

BOILER, NO. 3, CLEAVER BROOKS, FIRETUBE TYPE, MODEL NO. CBLE-700-600-150-ST, WITH ONE LOW NOX BURNER, POWER FLAME, MODEL NO. NVC11CBR-G-40, NATURAL GAS FIRED WITH LIQUEFIED PETROLEUM GAS (LPG) STAND-BY FUEL, RATED AT 25,200,000 BTU PER HOUR.

Conditions:

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS BOILER SHALL BE FIRED WITH NATURAL GAS ONLY, EXCEPT DURING TESTING, MAINTENANCE, NATURAL GAS CURTAILMENT OR AN EMERGENCY EVENT, AT WHICH TIME LIQUEFIED PETROLEUM GAS (LPG) MAY BE USED.
[RULE 1146]
4. THIS BOILER SHALL BE OPERATED IN COMPLIANCE WITH THE REQUIREMENTS OF RULE 1146.
[RULE 1146]
5. THIS BOILER SHALL NOT EMIT MORE THAN 9 PPM FOR OXIDES OF NITROGEN (NOX) CALCULATED AS NO₂, AND NOT MORE THAN 50 PPM OF CARBON MONOXIDE (CO), ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% OXYGEN AND AVERAGED OVER A PERIOD OF 15 CONSECUTIVE MINUTES, WHEN FIRED USING NATURAL GAS.

THIS BOILER SHALL NOT EMIT MORE THAN 40 PPM OF OXIDES OF NITROGEN (NOX), CALCULATED AS NO₂, AND NOT MORE THAN 400 PPM OF CARBON MONOXIDE (CO), ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% OXYGEN AND AVERAGED OVER A PERIOD OF 15 CONSECUTIVE MINUTES, WHEN FIRED USING LIQUEFIED PETROLEUM GAS (LPG).
[RULE 1146]

FACILITY PERMIT TO OPERATE CITY OF HOPE

6. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TESTS UNDER THE FOLLOWING CONDITIONS:
- A. SOURCE TESTING SHALL BE CONDUCTED WITHIN 60 DAYS AFTER INITIAL START-UP UNLESS OTHERWISE APPROVED IN WRITING BY THE EXECUTIVE OFFICER.
 - B. THE SOURCE TESTS SHALL BE PERFORMED TO VERIFY COMPLIANCE WITH THE NO_x AND CO EMISSION LIMITS SPECIFIED IN CONDITION NO. 5.
 - C. THE TESTS SHALL BE CONDUCTED WHILE THE BOILER IS FIRING AT MAXIMUM, MINIMUM AND AVERAGE FIRING RATES.
 - D. WRITTEN NOTICE OF THE SOURCE TESTS SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P.O. BOX 4941, DIAMOND BAR, CA 91765) AT LEAST 10 DAYS PRIOR TO TESTING SO THAT AN OBSERVER MAY BE PRESENT.
 - E. TWO COMPLETE COPIES OF THE SOURCE TEST REPORTS SHALL BE SUBMITTED TO THE DISTRICT (ADDRESSED TO SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT, P.O. BOX 4941, DIAMOND BAR, CA 91765) WITHIN 30 DAYS AFTER THE TEST. THE REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO EMISSIONS RATES IN POUNDS PER HOUR AND CONCENTRATIONS IN PPMV AT THE OUTLET OF THE HEATER, MEASURED ON A DRY BASIS AT 3% OXYGEN. THE FOLLOWING OPERATING DATA SHALL ALSO BE INCLUDED FOR EACH FIRING RATE:
 - I. THE EXHAUST FLOW RATES, IN ACTUAL CUBIC FEET PER MINUTE (ACFM).
 - II. THE FIRING RATES, IN BTU PER HOUR.
 - III. THE EXHAUST TEMPERATURE, IN DEGREES FAHRENHEIT.
 - IV. THE OXYGEN CONTENT OF THE EXHAUST GASES, IN PERCENT.
 - V. THE FUEL FLOW RATE.
 - F. A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR CRITERIA POLLUTANT TO BE MEASURED, AND IN COMPLIANCE WITH DISTRICT RULE 304 (NO CONFLICT OF INTEREST) SHALL CONDUCT THE TEST.
 - G. SAMPLING FACILITIES SHALL COMPLY WITH THE DISTRICT GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES PURSUANT TO RULE 217.
[RULE 1146]
7. THE COMBUSTION BURNER SHALL BE INSPECTED AND MAINTAINED PER MANUFACTURER SPECIFICATIONS. RECORDS SHALL BE MAINTAINED FOR THE INSPECTIONS AND MAINTENANCE OF THE BURNER.
[RULE 1146]
8. THE OPERATOR OF THIS BOILER SHALL COMPLY WITH SOURCE TESTING REQUIREMENTS IN SUBDIVISION (d)-COMPLIANCE DETERMINATION OF RULE 1146 FOR BOTH NATURAL GAS AND LPG.
[RULE 1146]

FACILITY PERMIT TO OPERATE CITY OF HOPE

9. THE OPERATOR OF THIS BOILER SHALL KEEP A RECORD OF THE LPG FUEL USAGE (WHEN USED AS BACK-UP FUEL) OF THIS EQUIPMENT. RECORDS SHALL INCLUDE THE DATE THE BOILER IS FIRED USING LPG, THE SPECIFIC REASON, AND THE TOTALIZING FUEL METER READING AT THE BEGINNING AND OF THE OPERATION.

[RULE 1146]

10. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE KEPT FOR A MINIMUM OF FIVE YEARS AND BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.

[RULE 3004(a)(4)-Periodic Monitoring]

FACILITY PERMIT TO OPERATE CITY OF HOPE

RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS.

Periodic Monitoring:

1. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):

FOR ARCHITECTURAL APPLICATIONS WHERE NO THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN SEMI-ANNUAL RECORDS OF ALL COATINGS CONSISTING OF (a) COATING TYPE, (b) VOC CONTENT AS SUPPLIED IN GRAMS PER LITER (g/l) OF MATERIALS FOR LOW-SOLIDS COATINGS, (c) VOC CONTENT AS SUPPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATING.

FOR OTHER ARCHITECTURAL APPLICATIONS WHERE THINNERS, REDUCERS, OR OTHER VOC CONTAINING MATERIALS ARE ADDED, MAINTAIN DAILY RECORDS FOR EACH COATING CONSISTING OF (a) COATING TYPE, (b) VOC CONTENT AS APPLIED IN GRAMS PER LITER (g/l) OF MATERIALS USED FOR LOW-SOLIDS COATINGS, (c) VOC CONTENT AS APPLIED IN g/l OF COATING, LESS WATER AND EXEMPT SOLVENT, FOR OTHER COATING.

[RULE 3004 (a) (4)]

Emissions And Requirements:

2. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATION:

VOC: RULE 1113, SEE APPENDIX B FOR EMISSION LIMITS

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

FACILITY PERMIT TO OPERATE CITY OF HOPE

RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, BOILER, > 400,000 BTU/HR BUT < 2 MMBTU/HR.

Emissions And Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: 0.1 gr/scf, RULE 409
NOx: 30 PPMV, RULE 1146.2
CO: 400 PPMV, RULE 1146.2
CO: 2000 PPMV, RULE 407

FACILITY PERMIT TO OPERATE CITY OF HOPE

RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, HAND WIPING OPERATION.

Emissions And Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS